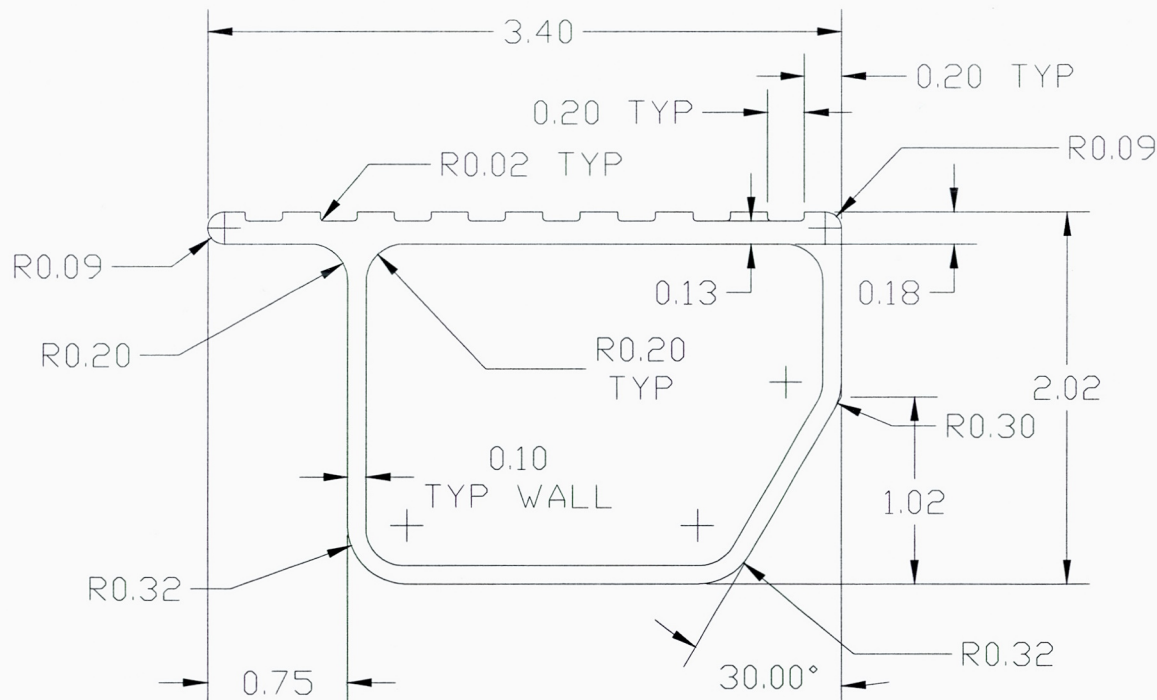


REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		07/02/08

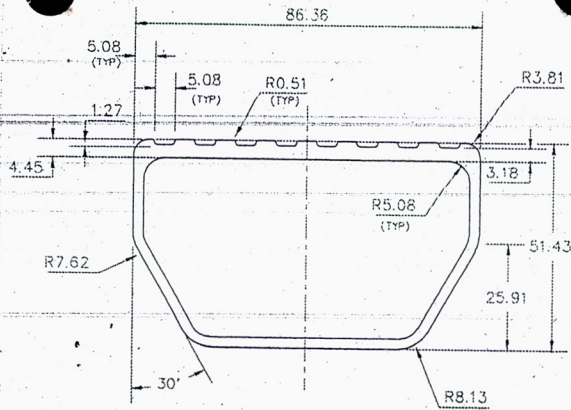
NOTES

- REFERENCE DRAWING - PROFILE AND MATERIAL DESCRIPTION ONLY LENGTH AND OTHER FEATURES TO BE DETAILED ON DRAWINGS USING THIS REFERENCE.



1	78230	01	STEP EXTRUSION PROFILE	ALUM 6061-T6		
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
QTY	LIST OF MATERIALS					
THIS DRAWING CONTAINS INFORMATION AND DATA WHICH IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING, OR ANY PORTION THEREOF, MAY NOT BE REPRODUCED, COPIED, OR DUPLICATED IN ANY MANNER, NOR USED FOR MANUFACTURING WITHOUT THE WRITTEN CONSENT OF AERO DESIGN LTD. BY ACCEPTING THIS DRAWING FOR REFERENCE, THE RECIPIENT AGREES TO HOLD AERO DESIGN LTD. HARMLESS FROM THE USE, OR MISUSE, OF THIS DRAWING OR THE INFORMATION CONTAINED THEREIN.			APPROVALS	DATE	AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 250-8333 www.aerodesign.ca	
			DRAWN: R. RATHWELL	07/02/08		
			CHECKED: E. BURGON			
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX ±0.010 ±1/2° X.XX ±0.03 X.X ±0.1		-- STEP EXTRUSION PROFILE GEOMETRY	
			SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.
			SHEET 1 OF 1	A4	78230	0

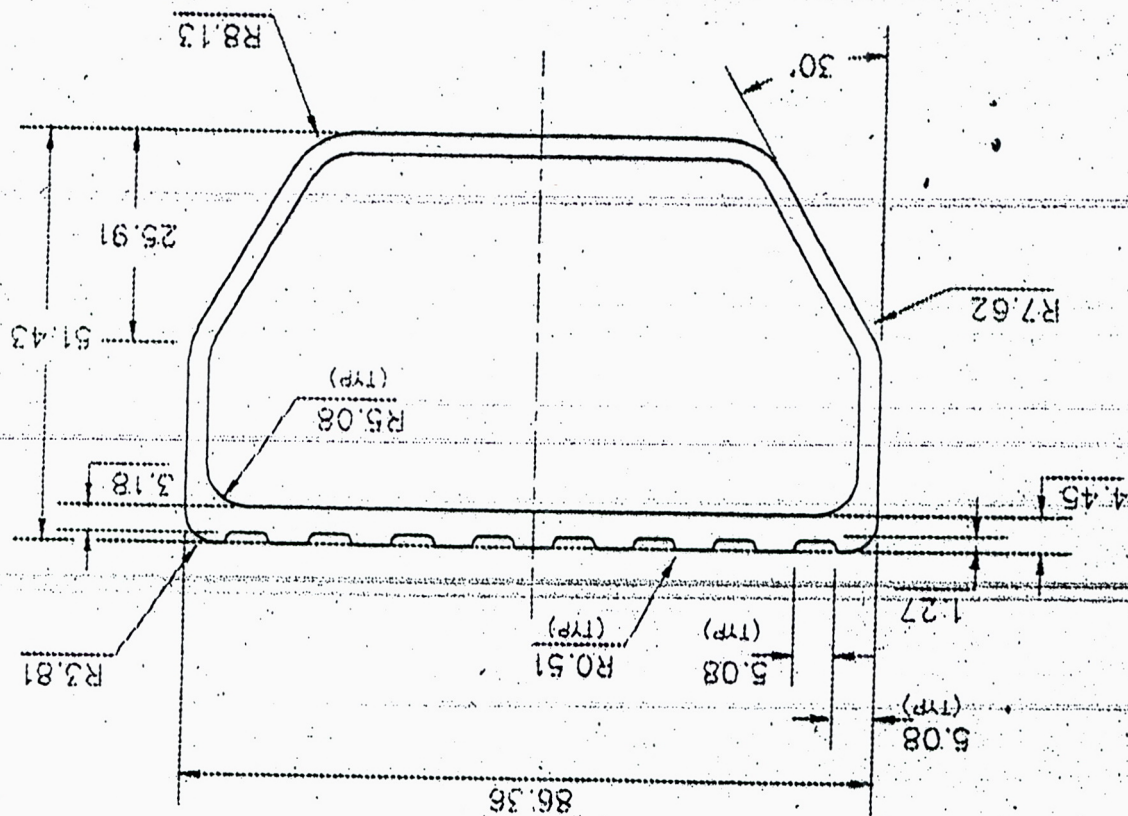
EXPOSED ALL AROUND



ACTUAL SIZE

Caradon Indalex				PRELIM <input type="checkbox"/> WT <input type="checkbox"/>	CHECKING DATED <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	LIST REPRESENT <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
WALL THICKNESS 0.100 IN 2.54 MM EXCEPT AS SHOWN				NET SIZE 10 x 5.5 IN WT.		NET LBS		
EST. AREA 1.122 IN ² 723.90 MM ²		OUT PER 10.308 IN 261.83 MM		SACRER SIZE		FEEDER SIZE		
EST. WT. 1.346 LBS 0.61 KG		FACTOR 14 / 248		BACKER NO.		FEEDER NO.		
EST. PER 19.188 IN 487.38 MM		C.C.D. 3.487 IN 88.57 MM		BACKER LEE		FEEDER LEE		
OWN BY ALLDY6061-T6		SCALE 1:1 DATE 97/9/11		WELDER NO. C1882		WELDER LEE C9		CAV. 1
BREAK ALL CORNERS .010" R (0.254) UNLESS OTHERWISE NOTED.				PRESS NO 2		CONF 188		EXT SATID 38
				STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED				

ACTUAL SIZE



EXPOSED ALL AROUND



Please Remit to/A Remettre à:
P.O. Box 6447
Station Terminal
Vancouver, BC
V6B 6R3
p: 1-866-213-2084 f: 1-866-245-2538

Invoice / Facture
Shipped Date Order No Date
Date d'Expédiée No de Commande
2008/03/25 8021878 2008/03/25

INVOICE NO.
925935 P. 1

Aluminum Extrusions - Anodizing - Fabrication - Painting

Sold to / Vendu à

AERO DESIGN LTD.
2013 - 39TH AVENUE N.E.
CALGARY, ALBERTA

Ship to / Expédié à

Same unless otherwise noted

T2E6R7
ALT

Cust No / No de Client 64032	XXXXXXXXXX	Cust Ord No/No Comm Client 8017	Terms / Conditions Net 30 Days	Packing Slip / Bon de Liv. 650494
Salesrep/Vendeur 46	PST No / No du TVP 0%	Order Date/Date de Com 8/02/15	Our Dte/Notre Dte 8/02/15	FOB/FAB 05
				Ship Via / Expédié par STINGRAY

TPS/GST: R136834041

Item No	Ordered Weight Pieces	Sls Code	Indalex Die No	Alloy Temper	Length	Unit Price UM	This Shipment Lin Qty	Bdls	Weight	Pieces	Amount
Item No	Commandé Poids Pieces	Code	Matrice	Alliage	Longueur	Prix UM	Com Expédié Qty Lin	Bal	Poids	Piec	Montant
1	6 2	VH60078	6005AT61	1524			1	6	2		
		11	EXTRUSION			.0001 PC					.00
			HELICOPTER STEP EXTR								
SUB-TOTAL											

Interest charges at 2% per month or 24% per annum on
past due / Les taux d'intérêts sont de 2% par mois ou
24% annuellement sur factures en retard

**Total Amount
Montant Total**

CND DOLLARS

.00

Heli-Access-Step™

Bell 206/407/OH-58

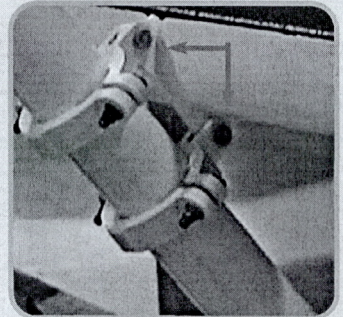
Step right up, Ladies and Gentlemen!

DART stepped up to the challenge in designing the *Heli-Access-Step™* for Bell, Eurocopter and Agusta aircraft.

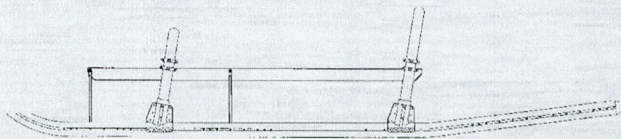
DART recognized the industry need for lightweight steps that are strong and functional — steps you can depend on. **DART** steps are now standard equipment on new aircraft.

DART offers a variety of steps for most types of aircraft.

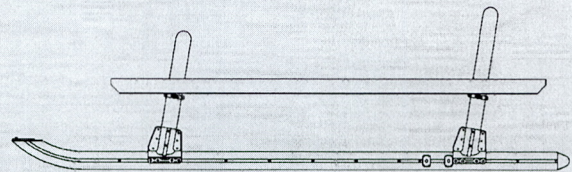
DART steps for the Bell 206, 407 and OH-58 are torsionally stiffer than other steps on the market. There will be no more rolling or rotating with these steps! They install on the crosstubes with a unique duplex clamping system that self-locks when weight is applied to prevent the step from slipping. Not only does the dual clamping system make installation a breeze, it also simplifies removal for inspection. And for even greater versatility, try our quick release pip pin kit.



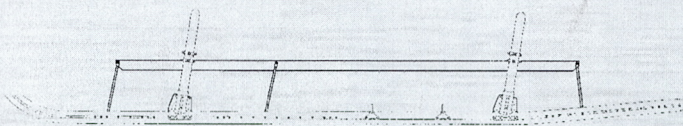
Unique, secure
clamping system



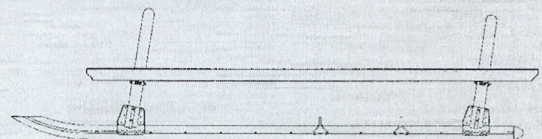
D206-628-013/-014



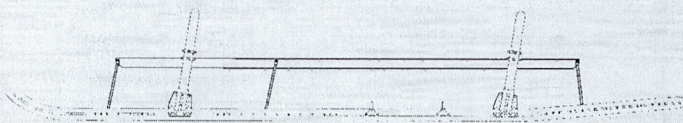
D206-628-011/-012



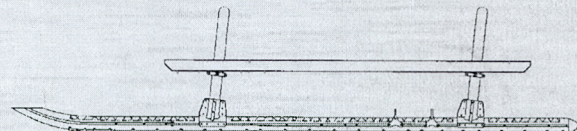
D206-628-023/-024



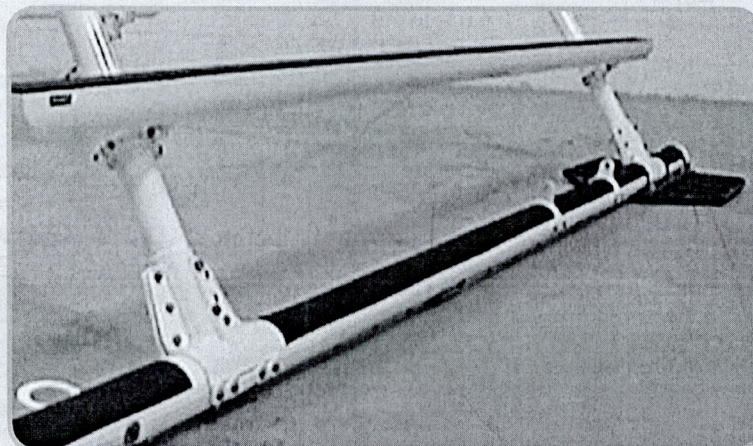
D206-628-021/-022/-031/-032



D206-628-033/-034



D058-677-011/-012/-013/-014



D206-628-021/-022

FOR CURRENT PRODUCT OFFERINGS VISIT WWW.DARTHELICOPTERSERVICES.COM

Heli-Access-Step™

Bell 206/407/OH-58

Heli-Access-Step™				
APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION	
Canada	SH98-14	206A/B/L/L1/L3/L4/407	Heli-Access-Step™	
USA	SA00500SE	206A/B/L/L1/L3/L4/407	Heli-Access-Step™	
USA	SR00915SE	OH-58A/A+/C	Heli-Access-Step™	
New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.				
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME	
D206-628-011	Heli-Access-Step™ LH 206A/B	7.56 lb / 3.43 kg	2 hrs	
D206-628-012	Heli-Access-Step™ RH 206A/B	7.56 lb / 3.43 kg	2 hrs	
D206-628-013	Heli-Access-Step™ LH 206A/B	7.83 lb / 3.55 kg	2 hrs	
D206-628-014	Heli-Access-Step™ RH 206A/B	7.83 lb / 3.55 kg	2 hrs	
D206-628-021	Heli-Access-Step™ LH 206L/L1/L3/L4	9.79 lb / 4.44 kg	2 hrs	
D206-628-022	Heli-Access-Step™ RH 206L/L1/L3/L4	9.79 lb / 4.44 kg	2 hrs	
D206-628-023	Heli-Access-Step™ LH 206L/L1/L3/L4	11.66 lb / 5.29 kg	2 hrs	
D206-628-024	Heli-Access-Step™ RH 206L/L1/L3/L4	11.66 lb / 5.29 kg	2 hrs	
D206-628-031	Heli-Access-Step™ LH 407	9.79 lb / 4.44 kg	2 hrs	
D206-628-032	Heli-Access-Step™ RH 407	9.79 lb / 4.44 kg	2 hrs	
D206-628-033	Heli-Access-Step™ LH 407	11.66 lb / 5.29 kg	2 hrs	
D206-628-034	Heli-Access-Step™ RH 407	11.66 lb / 5.29 kg	2 hrs	
D058-677-011	Heli-Access-Step™ LH OH-58	7.80 lb / 3.55 kg	2 hrs	
D058-677-012	Heli-Access-Step™ RH OH-58	7.80 lb / 3.55 kg	2 hrs	
D058-677-013	Heli-Access-Step™ LH OH-58	7.80 lb / 3.55 kg	2 hrs	
D058-677-014	Heli-Access-Step™ RH OH-58	7.80 lb / 3.55 kg	2 hrs	
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D206-628-011	Heli-Access-Step™	LH - High gear. Pip pin option available. Price is per side	206A/B	\$1,390.00
D206-628-012	Heli-Access-Step™	RH - High gear. Pip pin option available. Price is per side	206A/B	\$1,390.00
D206-628-013	Heli-Access-Step™	LH - Float Compatible. Pip pin option available. OEM & Kwik float compatible Price is per side	206A/B	\$1,390.00
D206-628-014	Heli-Access-Step™	RH - Float Compatible. Pip pin option available. OEM & Kwik float compatible Price is per side	206A/B	\$1,390.00
D206-628-021	Heli-Access-Step™	LH - High gear. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-022	Heli-Access-Step™	RH - High gear. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-023	Heli-Access-Step™	LH - Float Compatible. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-024	Heli-Access-Step™	RH - Float Compatible. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-031	Heli-Access-Step™	LH - High gear. Pip pin option available. Price is per side	407	\$1,531.00
D206-628-032	Heli-Access-Step™	RH - High gear. Pip pin option available. Price is per side	407	\$1,531.00
D206-628-033	Heli-Access-Step™	LH - Float Compatible. Pip pin option available. Price is per side	407	\$1,531.00
D206-628-034	Heli-Access-Step™	RH - Float Compatible. Pip pin option available. Price is per side	407	\$1,531.00
DSI 9235-011	Quick Release Pip Pin Kit	Compatible with all D206-628 steps. Price is per step	206A/B/L/L1/L3/L4/407	Contact Sales
D058-677-011	Heli-Access-Step™	LH - High gear. Compatible with Aft crosstube p/n 206-052-109-3 (outside diameter 2.25) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00
D058-677-012	Heli-Access-Step™	RH - High Gear. Compatible with Aft crosstube p/n 206-052-109-3 (outside diameter 2.25) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00
D058-677-013	Heli-Access-Step™	LH - High gear. Compatible with Aft crosstube p/n 058-321-102 & 602-058-001 (outside diameter 2.5) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00
D058-677-014	Heli-Access-Step™	RH - High Gear. Compatible with Aft crosstube p/n 058-321-102 & 602-058-001 (outside diameter 2.5) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00

Heli-Access-Step™ Bell 204/205/210/212/214/412/UH-1

These steps for Bell medium aircraft (204/205/210/212/214/412/UH-1) attach to fuselage hardpoints. They're available in fixed and folding options, as well as for standard and extended height landing gear. They split the height difference between the aircraft floor and the ground.



**Low maintenance
and approved to be flown
deployed or stowed**

- **Heavy duty / folding / fixed**
- **Simplex / Isolair Tank compatible / OEM & Apical float compatible**
- **Compatible on low / high / extended height gear**

Heli-Access-Step™ Bell 204/205/210/212/214/412/UH-1

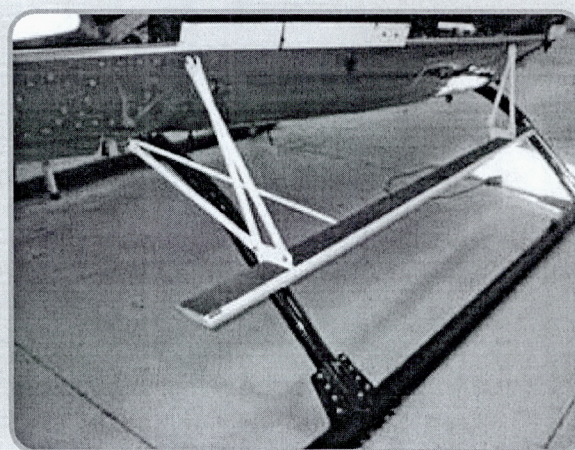
HELI-ACCESS-STEP™

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
Canada	SH91-40	204B	Heli-Access-Step™ D204-618
USA	SR00505NY	204B	Heli-Access-Step™ D204-618
Canada	SH96-57	205A/205A1/205B/212/214B/ 214B1/412/412CF/ 412EP	Heli-Access-Step™ D205-633
USA	SR00592NY	214B/214B1	Heli-Access-Step™ D205-633
USA	SR00593NY	205A/205A1/205B	Heli-Access-Step™ D205-633
USA	SR00594NY	212/412/412CF/412EP/AB412/AB412EP	Heli-Access-Step™ D205-633
Germany	RC 1182	205A1/212/214B/214B1/412	Heli-Access-Step™ D205-633
Canada	SH96-69	205A/205A1/205B/212/214B/ 214B1/412/412CF/ 412EP	Heli-Access-Step™ D412-630
USA	SR00595NY	205A/205A1/205B	Heli-Access-Step™ D412-630
USA	SR00597NY	214B/214B1	Heli-Access-Step™ D412-630
USA	SR00598NY	212/412/412CF/412EP/AB412/AB412EP	Heli-Access-Step™ D412-630
Japan	STC-112-1-TYO	212/412/412EP	Heli-Access-Step™ D412-630
EASA	EASA.IM.R.S.01204	205A/205A1/205B/212/214B/214B1/412/412EP	Heli-Access-Step™ D412-630

New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

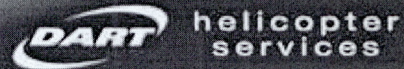
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
D204-618-011	Heli-Access-Step™ high gear	10.60 lb / 4.82 kg	3 hrs
D205-633-011	Heli-Access-Step™ high gear	14.00 lb / 6.35 kg	3 hrs
D205-633-013	Heli-Access-Step™ 31" gear Isolair Tank Compatible	14.30 lb / 6.49 kg	3hrs
D205-633-015	Heli-Access-Step™ 39" gear Isolair Tank Compatible	15.00 lb / 6.80 kg	3hrs
D205-633-017	Heli-Access-Step™ low gear	13.70 lb / 6.21 kg	3hrs
D205-633-021	Heli-Access-Step™ LH high gear, Simplex Tank Compatible	14.00 lb / 6.35 kg	3 hrs
D205-633-022	Heli-Access-Step™ RH high gear, Simplex Tank Compatible	13.20 lb / 6.00 kg	3hrs
D205-633-023	Heli-Access-Step™ LH 31" gear, Simplex Tank Compatible	14.30 lb / 6.49 kg	3hrs
D205-633-024	Heli-Access-Step™ RH 31" gear, Simplex Tank Compatible	13.50 lb / 6.14 kg	3hrs
D205-633-025	Heli-Access-Step™ LH 39" gear, Simplex Tank Compatible	14.60 lb / 6.64 kg	3hrs
D205-633-026	Heli-Access-Step™ RH 39" gear, Simplex Tank Compatible	13.80 lb / 6.27 kg	3hrs
D412-630-011	Heli-Access-Step™ LH heavy duty, folding	16.10 lb / 7.30 kg	3hrs
D412-630-012	Heli-Access-Step™ RH heavy duty, folding	16.10 lb / 7.30 kg	3hrs
D412-630-033	Heli-Access-Step™ LH folding	13.50 lb / 6.12 kg	3hrs
D412-630-034	Heli-Access-Step™ RH folding	13.50 lb / 6.12 kg	3hrs
D412-630-111	Heli-Access-Step™ LH, heavy duty, fixed	14.60 lb / 6.62 kg	3hrs
D412-630-112	Heli-Access-Step™ RH, heavy duty, fixed	14.60 lb / 6.62 kg	3hrs

See next 2 pages for pricing



D205-633-023

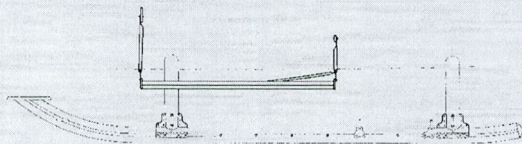
ACCESS STEPS



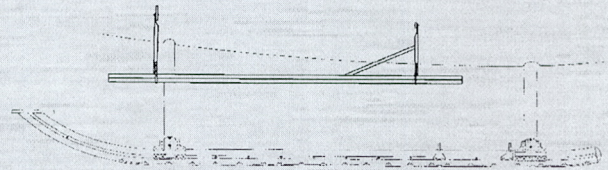
Heli-Access-Step™

Bell 205/210/212/214/412/UH-1

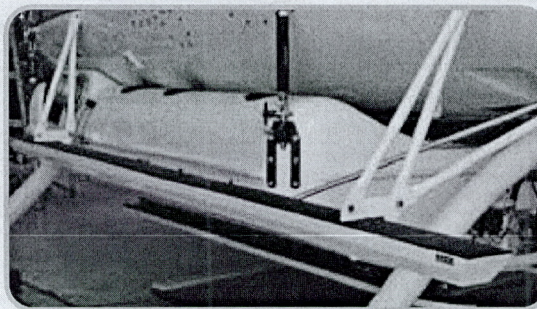
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D204-618-011	Heli-Access-Step™ (Fits LH or RH)	High gear. Mounts to fuselage STA 74.25 & 123 Price is per side	204	\$2,175.00
D205-633-011	Heli-Access-Step™ (Fits LH or RH)	High gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Price is per side	205/210/212/214/412/UH-1	\$2,175.00
D205-633-013	Heli-Access-Step™ (Fits LH or RH) 31" Extended Height Gear Isolair Tank Compatible	31" extended height gear. Mounts to fuselage at STA 63 & STA 129. Compatible with Isolair Tanks. Rated for 500 lb in flight. Price is per side	205/210/212/214/UH-1	\$2,525.00
D205-633-015	Heli-Access-Step™ (Fits LH or RH) 39" Extended Height Gear Isolair Tank Compatible	39" extended height gear. Mounts to fuselage at STA 63 & STA 129. Compatible with Isolair Tanks. Rated for 500 lb in flight. Price is per side	205/210/212/214/UH-1	\$2,525.00
D205-633-017	Heli-Access-Step™ (Fits LH or RH) Low Gear	Low gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Price is per side	205/210/212/214/412/UH-1	\$2,195.00
D205-633-021	Heli-Access-Step™ LH High Gear Simplex Tank Compatible	High gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/412/UH-1	\$3,295.00
D205-633-022	Heli-Access-Step™ RH High Gear Simplex Tank Compatible	High gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/412/UH-1	\$3,295.00
D205-633-023	Heli-Access-Step™ LH 31" Extended Height Gear Simplex Tank Compatible	31" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00
D205-633-024	Heli-Access-Step™ RH 31" Extended Height Gear Simplex Tank Compatible	31" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00
D205-633-025	Heli-Access-Step™ LH 39" Extended Height Gear Simplex Tank Compatible	39" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00
D205-633-026	Heli-Access-Step™ RH 39" Extended Height Gear Simplex Tank Compatible	39" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00



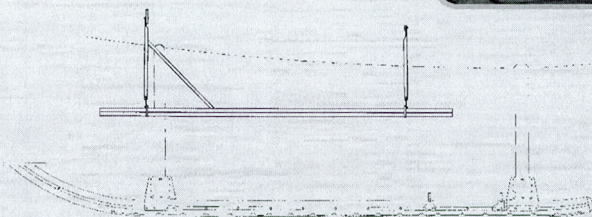
D204-618-011



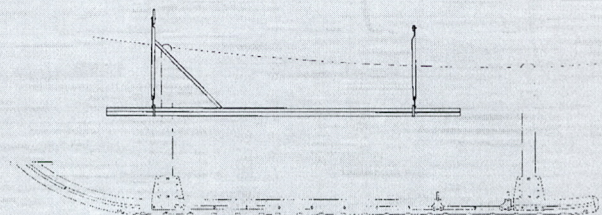
D205-633-011



D205-633-021/-022
Compatible with
Simplex Water Tank



D205-633-021/-022 (standard high gear)
D205-633-023/-024 (fits 31" gear)
D205-633-025/-026 (fits 39" gear)
Compatible with Simplex Tank

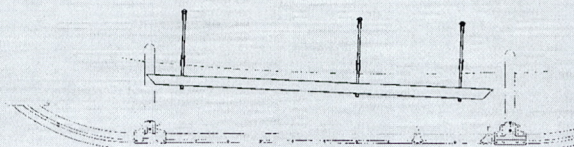


D205-633-015 (fits 39" gear)
D205-633-013 (fits 31" gear)
Compatible with Isolair Tank

FOR CURRENT PRODUCT OFFERINGS VISIT WWW.DARTHELICOPTERSERVICES.COM

Heli-Access-Step™ Bell 204/205/210/212/214/412/UH-1

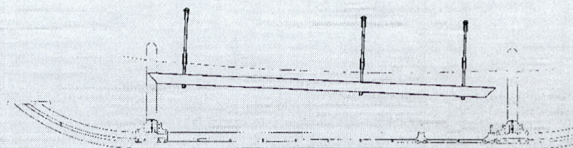
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D412-630-011	Heli-Access-Step™ LH Heavy Duty, Folding	Heavy duty, folding. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06. Installs on Low & High Gear. Price is per side	205/210/212/214/412/UH-1	\$4,894.00
D412-630-012	Heli-Access-Step™ RH Heavy Duty, Folding	Heavy duty, folding. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06. Installs on Low & High Gear. Price is per side	205/210/212/214/412/UH-1	\$4,894.00
D412-630-033	Heli-Access-Step™ LH Folding	Folding. Mounts to fuselage hardpoints at STA 84.29 & STA 155.06. Installs on Low & High Gear. OEM & Apical float compatible. Required equipment for the 614.7601 & 614.7602 Apical Tri-Bag Flotation Systems. (redesign of -023) Price is per side	205/210/212/214/412/UH-1	\$5,439.00
D412-630-034	Heli-Access-Step™ RH	Folding. Mounts to fuselage hardpoints at STA 84.29 & STA 155.06. Installs on Low & High Gear. OEM & Apical float compatible. Required equipment for the 614.7601 & 614.7602 Apical Tri-Bag Flotation Systems. (redesign of -024) Price is per side	205/210/212/214/412/UH-1	\$5,439.00
D412-630-111	Heli-Access-Step™ LH Heavy Duty, Fixed	Heavy duty, fixed. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06. Installs on High Gear. Price is per side	205/210/212/214/412/UH-1	\$5,439.00
D412-630-112	Heli-Access-Step™ RH	Heavy duty, fixed. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06 Installs on High Gear. Price is per side	205/210/212/214/412/UH-1	\$5,439.00



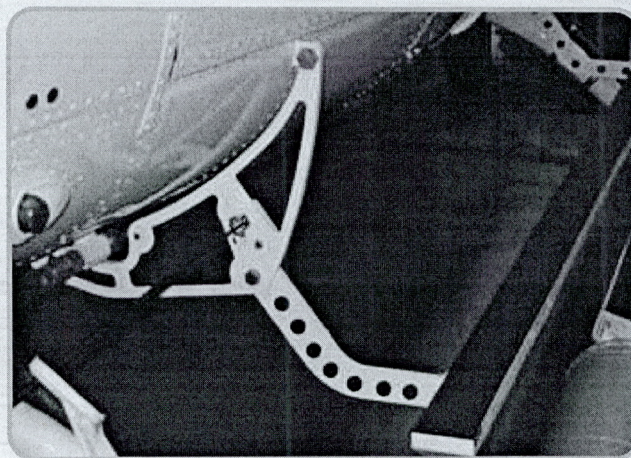
D412-630-011/-012



D412-630-033/-034



D412-630-111/-112



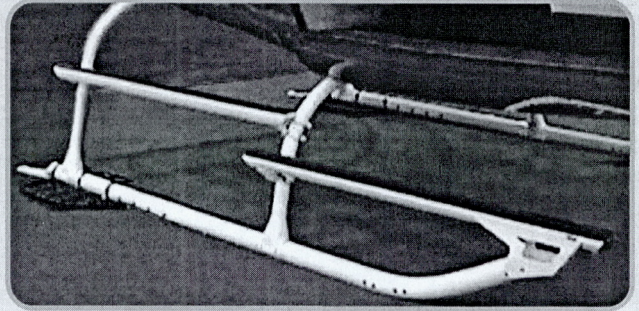
D412-630-033/-034
Float Compatible Step
(OEM & Apical)

Heli-Access-Step™**AS 350/AS 355**

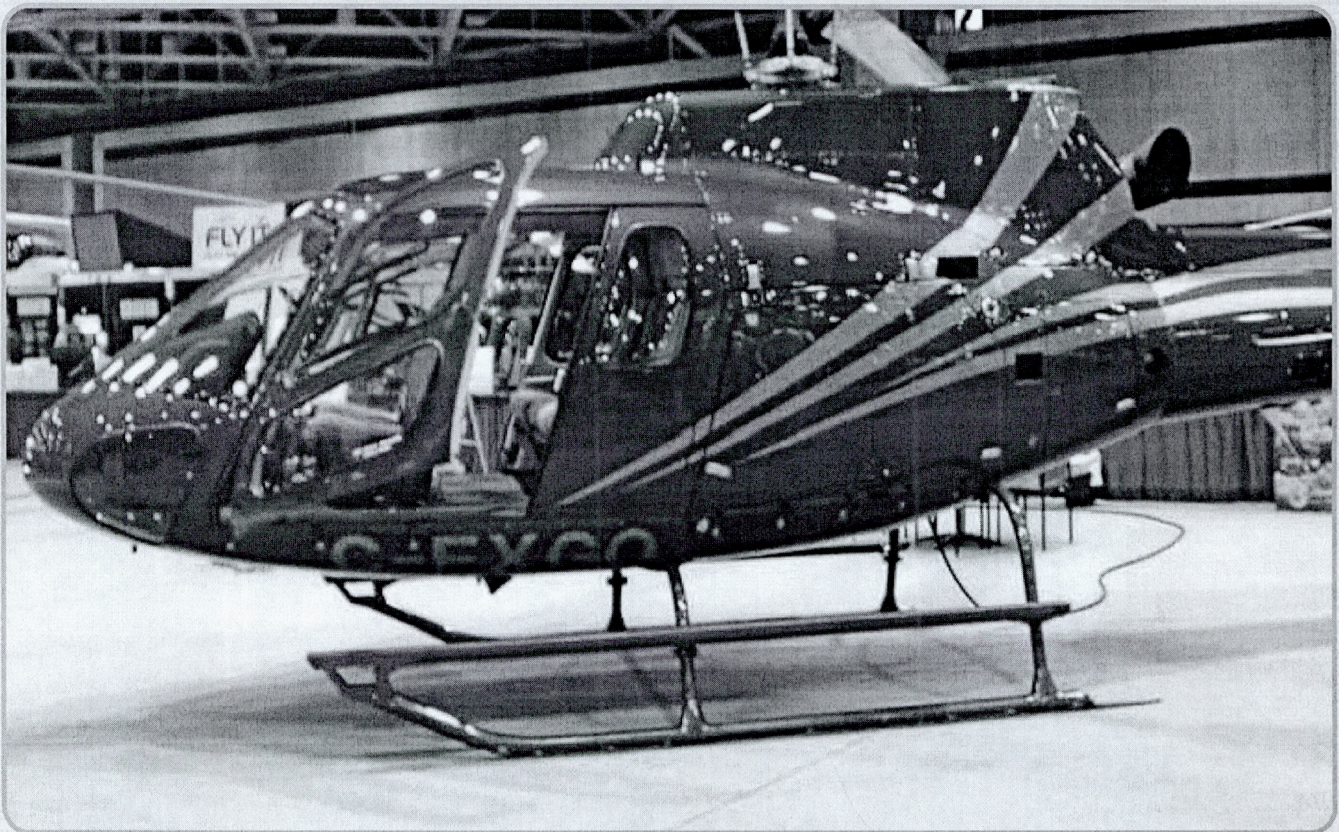
The **Heli-Access-Steps™** for the Eurocopter AS 350/AS 355 were designed to suit a number of landing gear configurations and operational needs. These steps are available in a variety of lengths and are compatible with the Air Cruiser or the Aerazur flotation systems.

The steps mount on the forward end of the Skidtube with a sheet metal enclosure and/or to the crosstubes using a reliable, lightweight support/clamping system.

These steps are just the ticket for safe, convenient and quick access. Your first step is to order a set.



D350-591-133 and D350-591-214



Heli-Access-Step™

AS 350/AS 355

Heli-Access-Step™			
APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
Canada	SH92-6	AS 350B/B1/B2/B3/BA/D1/AS 355E/F1/F2	Heli-Access-Step™
USA	SH967NE	AS 350B/B1/B2/B3/BA/C/D1/AS 355E/F1/F2/N	Heli-Access-Step™
France	157-SI-0930	AS 350 Series	Heli-Access-Step™
Germany	RC 1148	AS 350B/B1/B2/B3/BA/AS 355E/F1/F2	Heli-Access-Step™
Japan	STC-88-TYO	AS 350B/B1/B2/B3/BA/AS 355F/F1/F2	Heli-Access-Step™
Brazil	1999S02-01	AS 350B1/B2/B3/BA	Heli-Access-Step™
Brazil	1999S02-02	AS 355F/F1/F2/N	Heli-Access-Step™
Brazil	1999S02-03	AS 350B	Heli-Access-Step™
UK	27937	AS 350 Series	Heli-Access-Step™
UK	27938	AS 355 Series	Heli-Access-Step™
Eurocopter	350 A 08 4127	AS 350B2	Heli-Access-Step™
Canada	SH93-1	AS 350B/B1/B2/B3/BA/C/D1/AS 355E/F1/F2	Maintenance Step
USA	SR00600NY	AS 350B/B1/B2/B3/BA/C/D1/AS 355E/F1/F2	Maintenance Step
Canada	SH99-7	AS 350B/B1/B2/B3/BA/C/D1 / AS 355E/F1/F2	Toe Step
USA	SR00646SE	AS 350B/B1/B2/B3/BA/C/D1 / AS 355E/F1/F2/N	Toe Step
UK	28081	AS 350B/B1/B2/B3/BA	Toe Step
UK	28082	AS 355F/F1/F2/N	Toe Step

New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

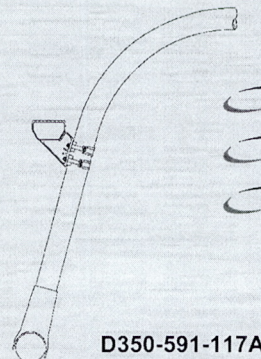
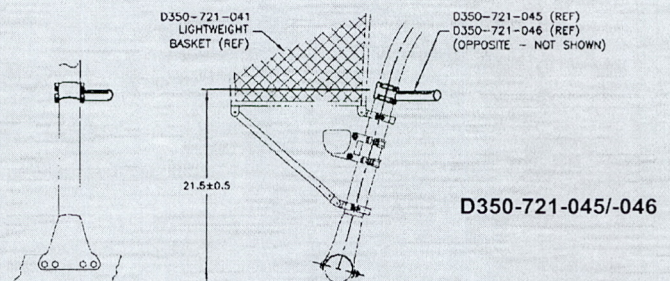
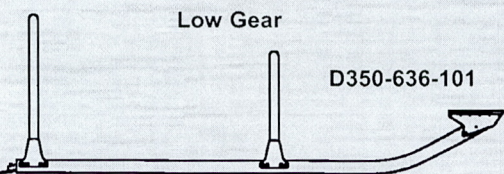
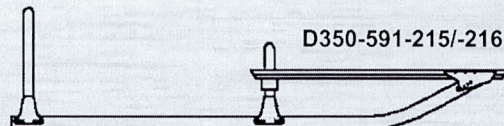
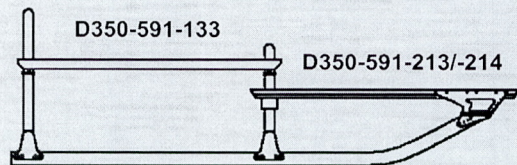
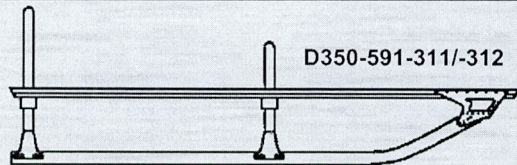
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
D350-591-311	Heli-Access-Step™ LH long step, high gear, Aerazur float compatible	12.00 lb / 5.40 kg	3 hrs
D350-591-312	Heli-Access-Step™ RH long step, high gear, Aerazur float compatible	12.00 lb / 5.40 kg	3 hrs
D350-591-213	Heli-Access-Step™ LH short step, high gear, Aerazur float compatible	6.30 lb / 2.88 kg	3 hrs
D350-591-214	Heli-Access-Step™ RH short step, high gear, Aerazur float compatible	6.30 lb / 2.88 kg	3 hrs
D350-591-215	Heli-Access-Step™ LH short step, low gear, Aerazur float compatible	5.90 lb / 2.70 kg	3 hrs
D350-591-216	Heli-Access-Step™ RH short step, low gear, Aerazur float compatible	5.90 lb / 2.70 kg	3 hrs
D350-591-117A	Pre-Flight Step	1.70 lb / 0.77 kg	1 hr
D350-591-133	Aft Maintenance Step	6.80 lb / 3.07 kg	1 hr
D350-615-041	GHW Modification Kit	N/A	1 hr
D350-591-121	Heli-Access-Step™ LH, short step, high gear, Air Cruiser float compatible	8.00 lb / 3.63 kg	3 hrs
D350-591-122	Heli-Access-Step™ RH, short step, high gear, Air Cruiser float compatible	8.00 lb / 3.63 kg	3 hrs
D350-591-123	Heli-Access-Step™ LH, short step, low gear, Air Cruiser float compatible	7.00 lb / 3.17 kg	3 hrs
D350-591-124	Heli-Access-Step™ RH, short step, low gear, Air Cruiser float compatible	7.00 lb / 3.17 kg	3 hrs
D350-721-045	Maintenance Step	1.00 lb / 0.45 kg	0.5 hrs
D350-721-046	Maintenance Step	1.00 lb / 0.45 kg	0.5 hrs
D350-636-101	Toe Step	1.00 lb / 0.50 kg	1 hrs

See next page for pricing



Heli-Access-Step™**AS 350/AS 355**

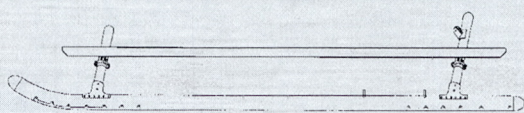
Heli-Access-Step™				
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D350-591-311	Heli-Access-Step™ LH	Long step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$2,135.00
D350-591-312	Heli-Access-Step™ RH	Long step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$2,135.00
D350-591-213	Heli-Access-Step™ LH	Short step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$1,385.00
D350-591-214	Heli-Access-Step™ RH	Short step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$1,385.00
D350-591-215	Heli-Access-Step™ LH	Short step, low gear. Aerazur float compatible. Price is per side	AS 350	\$1,385.00
D350-591-216	Heli-Access-Step™ RH	Short step, low gear. Aerazur float compatible. Price is per side	AS 350	\$1,385.00
D350-591-117A	Pre-Flight Step (Fits LH or RH)	Installs on Aft crosstube. Price is per side	AS 350/AS 355	\$575.00
D350-591-133	Aft Maintenance Step (Fits LH or RH)	High gear. Price is per side	AS 350/AS 355	\$1,035.00
D350-615-041	GHW Modification Kit (Fits LH or RH)	For improved ground handling with D350-591-311/-312 steps. One kit modifies one set of ground handling wheels. Price is per side	AS 350/AS 355	\$575.00
D350-591-121	Heli-Access-Step™ LH	Short step, high gear. Air Cruiser float compatible. Price is per side	AS 350/AS 355	\$1,505.00
D350-591-122	Heli-Access-Step™ RH	Short step, high gear. Air Cruiser float compatible. Price is per side	AS 350/AS 355	\$1,505.00
D350-591-123	Heli-Access-Step™ LH	Short step, low gear. Air Cruiser float compatible. Price is per side	AS 350	\$1,505.00
D350-591-124	Heli-Access-Step™ RH	Short step, low gear. Air Cruiser float compatible. Price is per side	AS 350	\$1,505.00
D350-721-045	Maintenance Step LH	Install on Aft crosstube. Compatible with D350-721-041/-043 Lightweight Baskets. Price is per side	AS 350/AS 355	\$465.00
D350-721-046	Maintenance Step RH	Install on Aft crosstube. Compatible with D350-721-041/-043 Lightweight Baskets. Price is per side	AS 350/AS 355	\$465.00
D350-636-101	Toe Step	Mounts to Fwd end of skidtube. Recommended accessory for installation with Apical Floats. Compatible with D350-636-011/-012/-013/-014 DART Skidtubes. Compatible with 20707-100/-200 Apical Steps. Price is per side	AS 350/AS 355	\$315.00



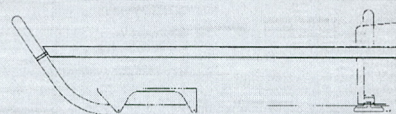
- Easy to install
- Easy to maintain
- Lightweight

Heli-Access-Step™

A119/EC 120



D119-675-011



D120-637-011

Heli-Access-Step™

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
Canada	LoA SA5010-A329/SA5012-12	Agusta A119	Heli-Access-Step™
USA	SR00948SE	Agusta A119	Heli-Access-Step™
Italy	N-CS-021	Agusta A119	Heli-Access-Step™

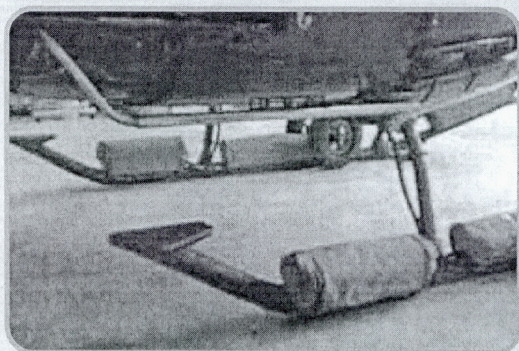
New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
D119-675-011	Heli-Access-Step™ LH	11.50 lb / 5.20 kg	2 hrs
D119-675-012	Heli-Access-Step™ RH	11.50 lb / 5.20 kg	2 hrs
D120-637-011	Heli-Access-Step™ LH	10.00 lb / 4.54 kg	2 hrs
D120-637-012	Heli-Access-Step™ RH	10.00 lb / 4.54 kg	2 hrs

PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D119-675-011	Heli-Access-Step™ LH	Clamps include bearings to prevent over stressing from landing gear displacements. Price is per side	A119	\$1,845.00
D119-675-012	Heli-Access-Step™ RH	Clamps include bearings to prevent over stressing from landing gear displacements. Price is per side	A119	\$1,845.00
D120-637-011	Heli-Access-Step™ LH	LH. OEM approved Price is per side	EC 120	\$1,845.00
D120-637-012	Heli-Access-Step™ RH	RH. OEM approved Price is per side	EC 120	\$1,845.00

Step Assembly

AS 350/AS 355



The Step Assembly is designed to provide aircrew and passenger access to the helicopter cockpit or cabin. The step supplements the OEM skid toe mounted step and includes a non-skid surface. The Step Assembly is constructed of high quality aluminum which has been anodized to protect it against corrosion. The Step Assembly is mounted high enough that it may be used with any Apical float configuration (Tri Bag Emergency Floats, Single Bag Emergency Floats). The Step Assembly contains the following:

- One step assembly
- Attaching brackets
- Attaching hardware



STEP ASSEMBLY

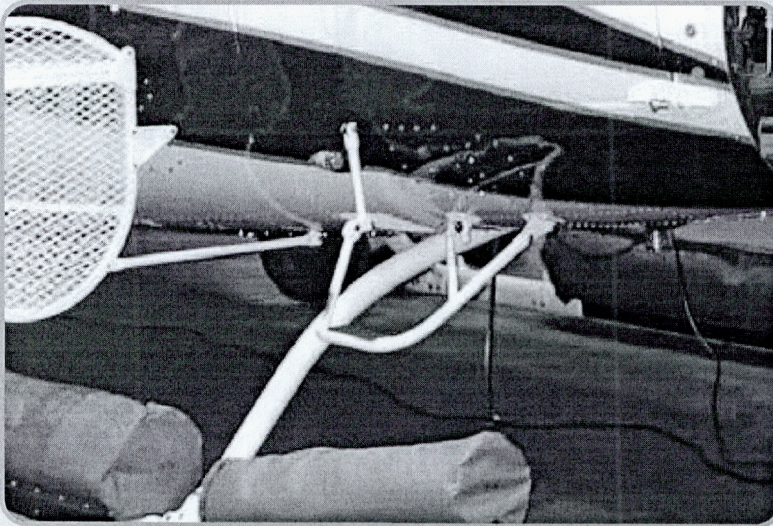
APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
USA	SR01156LA	AS 350B/B1/B2/B3/BA/C/D/D1 / AS 355E/F/F1/F2/N	Step Assembly
Canada	P-04-0194	AS 350B/B1/B2/B3/BA/C/D/D1 / AS 355E/F/F1/F2/N	Step Assembly

New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME	
20707-100 LH -200 RH	Step Assembly	23.00 lb / 10.45 kg	20 hrs	
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
20707-100	Step Assembly LH	Kit includes step attaching brackets and hardware	AS 350/AS 355	\$3,680.00
20707-200	Step Assembly RH	Kit includes step attaching brackets and hardware	AS 350/AS 355	\$3,680.00

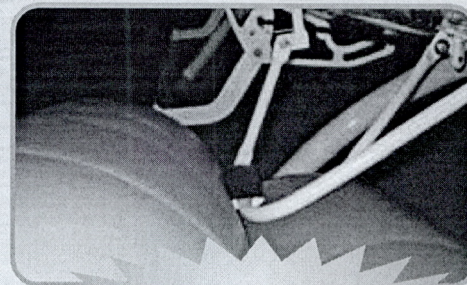
Step - Pilot/Co-Pilot Folding Step

Bell 205/210/212/214/412/UH-1

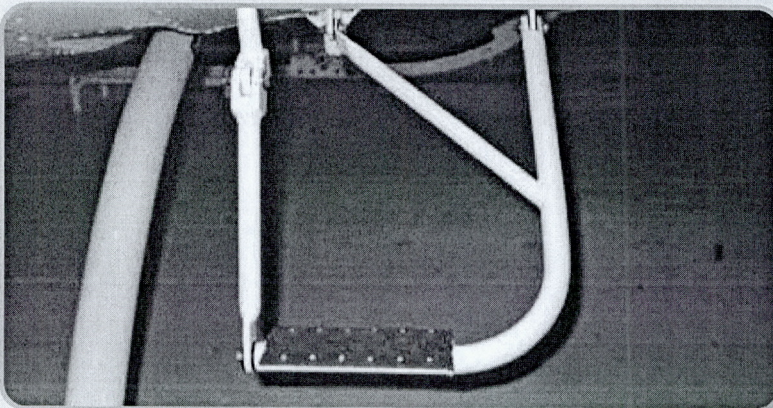


No longer do you have to decide what's the best way to get into the aircraft without pulling a muscle.

Getting in and out of a medium Bell aircraft has always been a stretch for pilots and co-pilots. The new Pilot / Co-Pilot Folding Step eases crew access to the aircraft without compromising long lining capability or interfering with float systems.

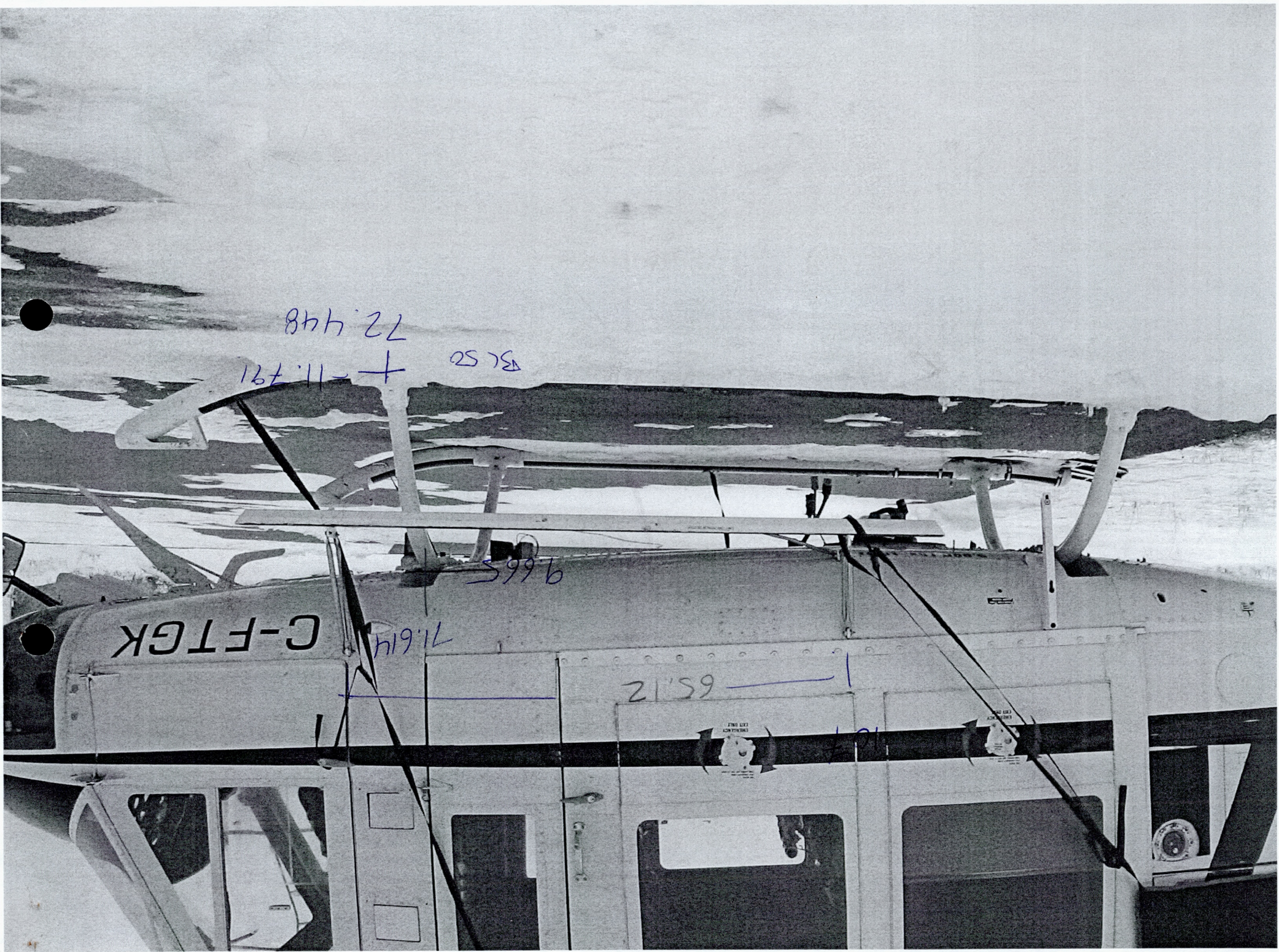


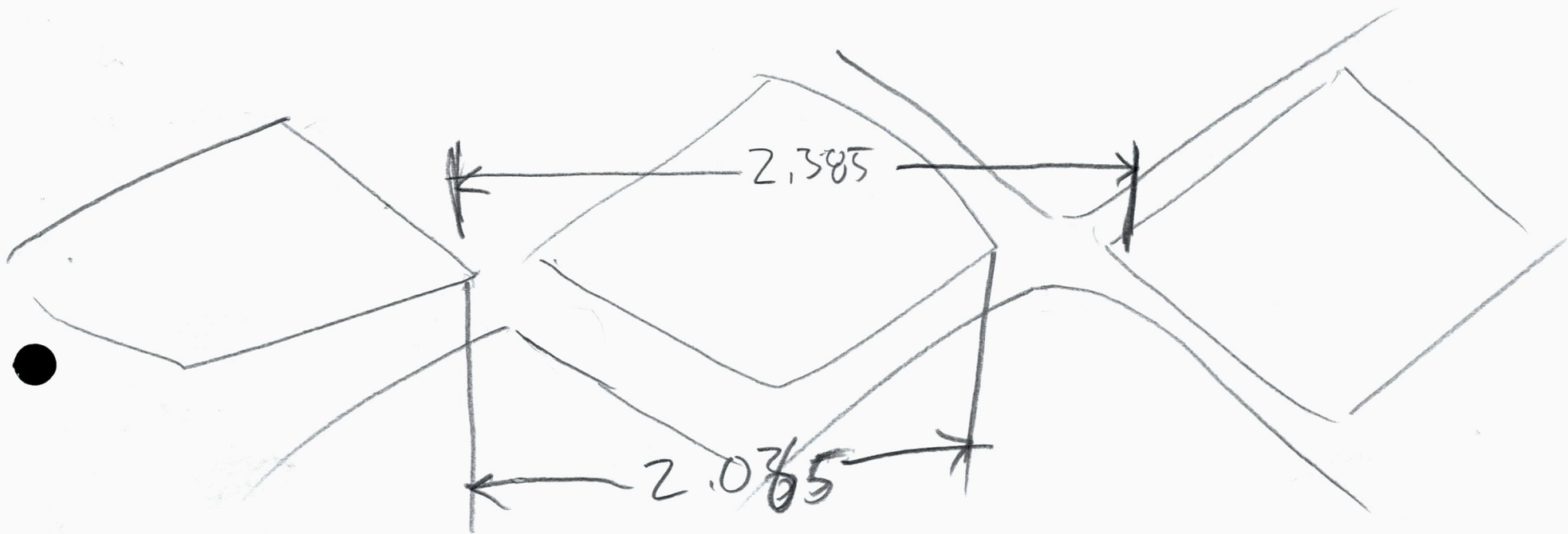
Compatible with all
D412-630 Steps



PILOT/CO-PILOT FOLDING STEP

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION		
Canada	SH96-69	205A/205A1/205B/212/214B/214B1/412/412CF/ 412EP	Pilot/Co-Pilot Folding Step		
USA	SR00597NY	214B/214B1	Pilot/Co-Pilot Folding Step		
USA	SR00595NY	205A/205A1/205B	Pilot/Co-Pilot Folding Step		
USA	SR00598NY	212/412/412CF/412EP/AB412/AB412EP	Pilot/Co-Pilot Folding Step		
Japan	STC-112-1-TYO	212/412/412EP	Pilot/Co-Pilot Folding Step		
EASA	EASA.IM.R.S.01204	205A/205A1/205B/212/214B/214B1/412/412EP	Pilot/Co-Pilot Folding Step		
New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.					
PART NUMBER	PRODUCT DESCRIPTION		KIT WEIGHT	INSTALLATION TIME	
D412-630-031	Pilot/Co-Pilot Folding Step LH		7.00 lb / 3.17 kg	4 hrs	
D412-630-032	Pilot/Co-Pilot Folding Step RH		7.00 lb / 3.17 kg	4 hrs	
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS		AIRCRAFT MODEL	PRICE
D412-630-031	Pilot / Co-Pilot Folding Step LH	Float compatible, installs at STA 63 & 53.5. Compatible with all D412-630 Steps.		205/210/212/214/412/UH-1	\$1,695.00
D412-630-032	Pilot / Co-Pilot Folding Step RH	Float compatible, installs at STA 63 & 53.5. Compatible with all D412-630 Steps.		205/210/212/214/412/UH-1	\$1,695.00

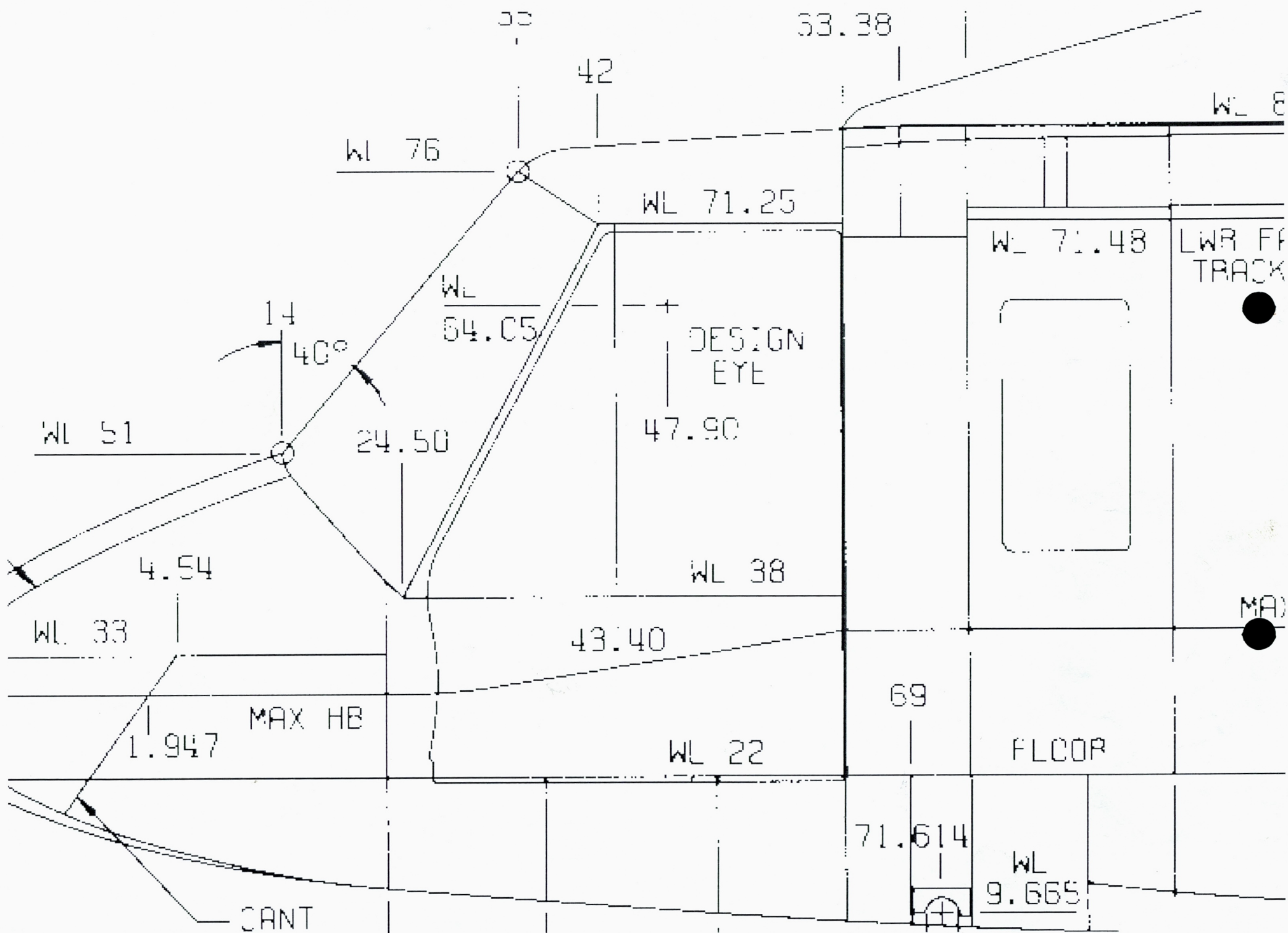




$92\frac{7}{8}$ ft to ft

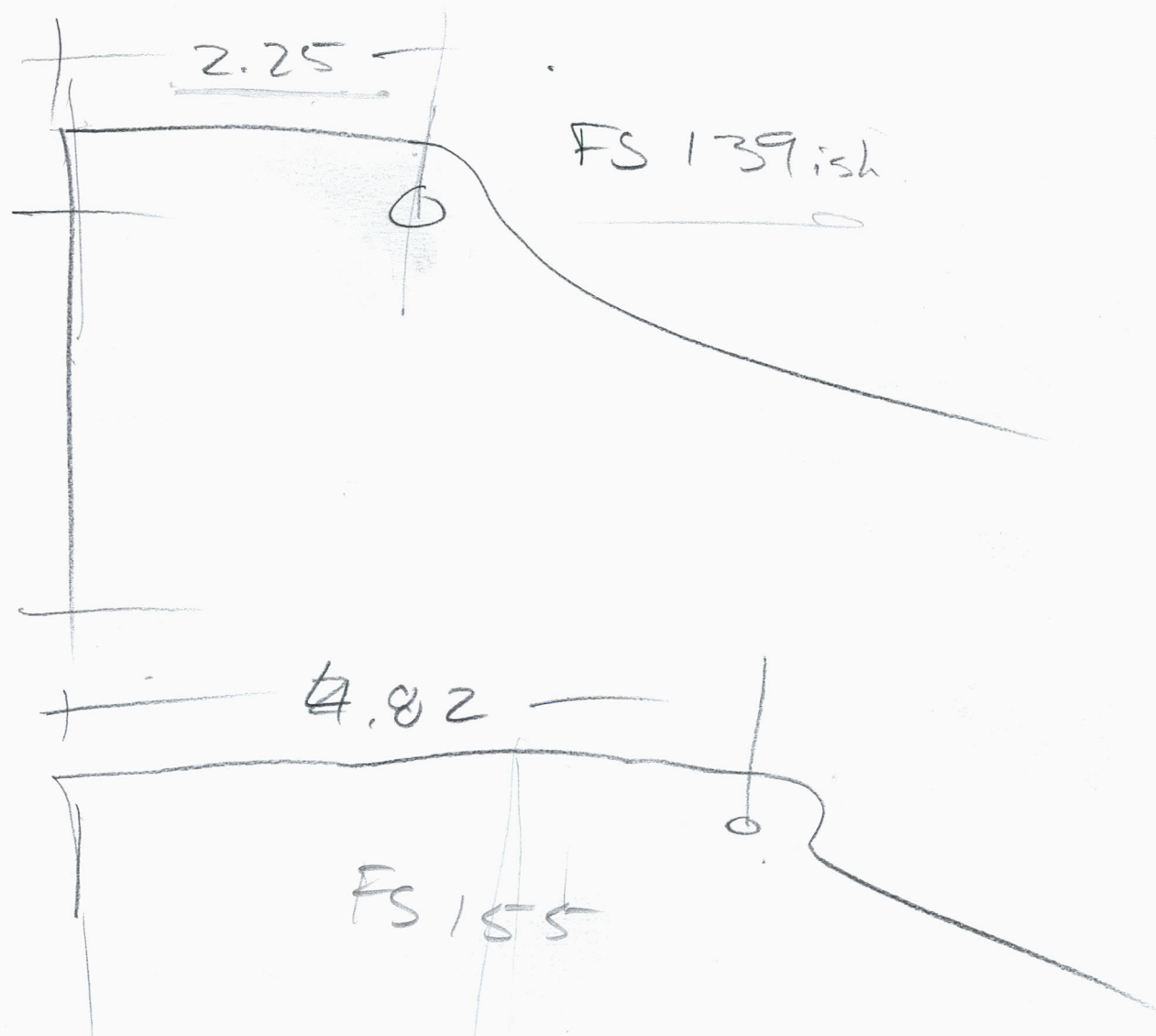
$96\frac{3}{8}$ ft to ft

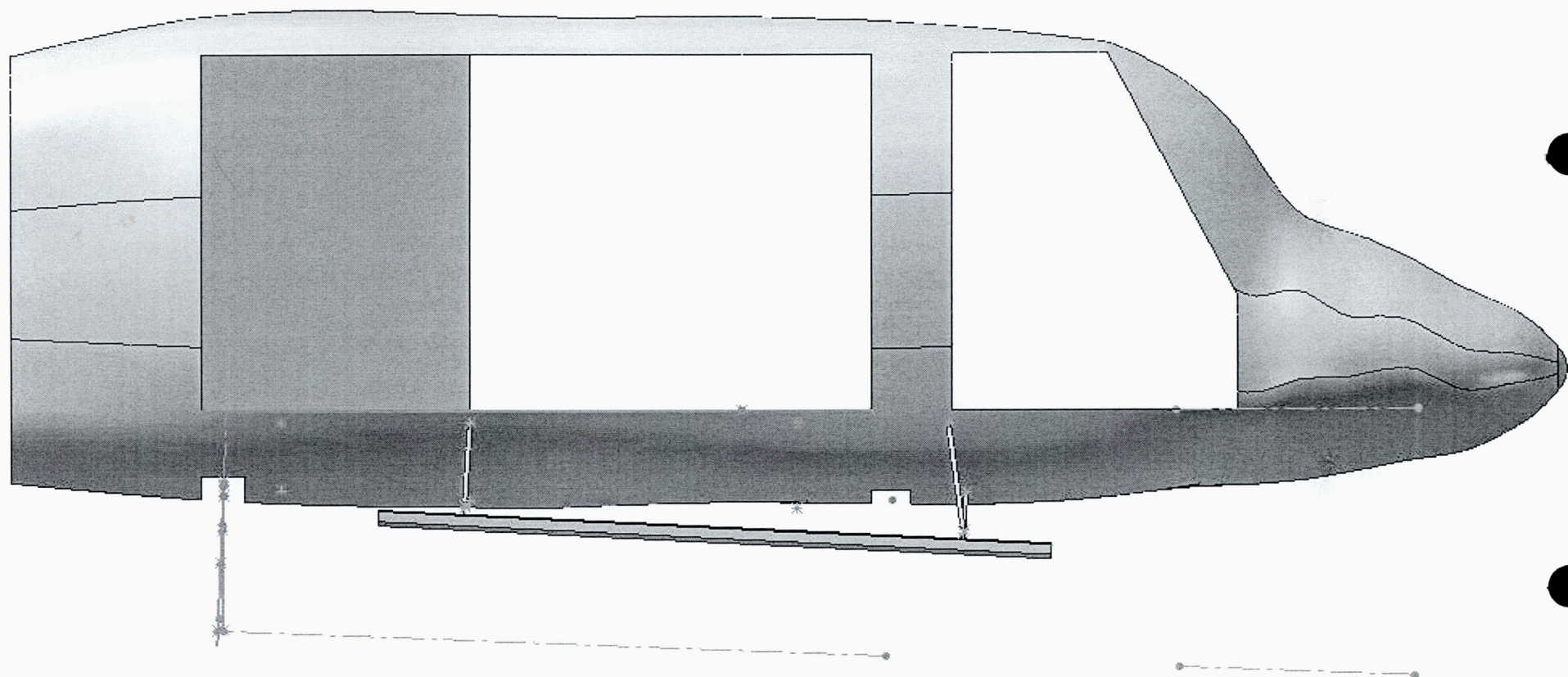




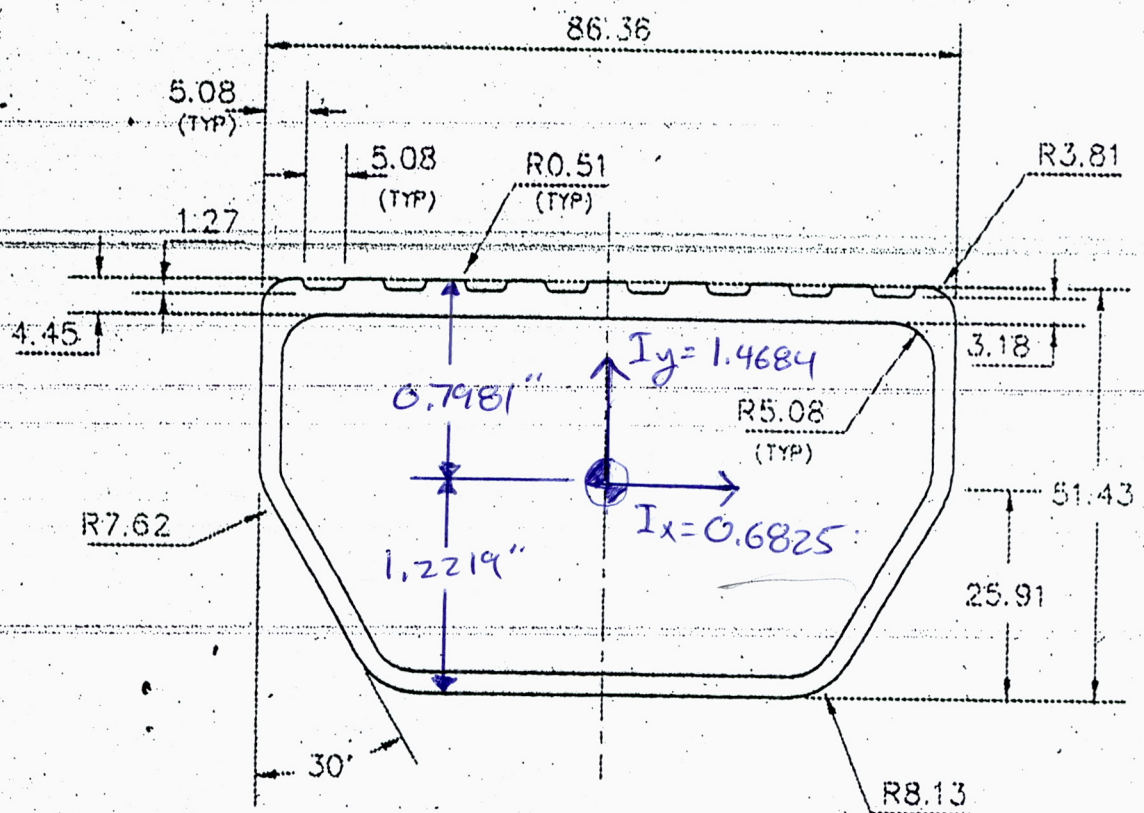
Fwd 75115-01

Aft 75131-01





EXPOSED ALL AROUND



~~ACTUAL SIZE~~

Alloy and Temper Designations

Alloy	Temper	Specified Section or wall thickness (Inches)	Tensile Strength, (ksi)		Yield Strength (0.2 % offset) ksi		Elongation % in 2 in. Min	Webster Readings
			Min	Max	Min	Max		
6060	T51	up through 0.125	22.0	---	16.0	---	8	9 - 12
		up through 1.000	22.0	30.0	16.0	25.0	8	9 - 12
6060	T61	up through .124	30.0	---	25.0	---	8	11 - 13
		0.125 - 1.000	30.0	---	25.0	---	10	11 - 13
6063	F	All	---	19.0	---	---	18	0 - 2
	Will Naturally Age							
6063	T1	up through 0.500	17.0	---	9.0	---	12	2 - 3
	Will Naturally Age	0.501 - 1.000	16.0	---	8.0	---	12	2 - 3
6063	T4	up through 0.500	19.0	---	10.0	---	14	2 - 5
	Will Naturally Age	0.501 - 1.000	18.0	---	9.0	---	14	2 - 4
6063	T5	up through 0.500	22.0	---	16.0	---	8	9 - 12
		0.501 - 1.000	21.0	---	15.0	---	8	9 - 12
6063	T52	up through 1.000	22.0	30.0	16.0	25.0	8	7 - 8
6063	T6	up through 0.124	30.0	---	25.0	---	8	11 - 13
		0.135 - 1.000	30.0	---	25.0	---	10	11 - 13
6063	* T5 511	up through 0.500	22.0	---	16.0	---	9	9 - 12
		0.501 - 1.000	21.0	---	15.0	---	9	9 - 12
6609	F	All	---	19.0	---	---	18	0 - 2
(6063)	Will Naturally Age							
6609	T1	up through 0.500	17.0	---	9.0	---	12	2 - 3
(6063)	Will Naturally Age	0.501 - 1.000	16.0	---	8.0	---	12	2 - 3
6609	T4	up through 0.500	19.0	---	10.0	---	14	2 - 5
(6063)	Will Naturally Age	0.501 - 1.000	18.0	---	9.0	---	14	2 - 4
6609	T5	up through 0.500	22.0	---	16.0	---	11	9 - 12
(6063)		0.501 - 1.000	21.0	---	15.0	---	11	9 - 12
6609	T6	up through 0.124	30.0	---	25.0	---	9	11 - 13
(6063)		0.135 - 1.000	30.0	---	25.0	---	10	11 - 13
6608	T54	up through .500	33.0	---	30.0	---	8	13 - 15
(6063)		0.501 - 1.000	33.0	---	30.0	---	10	13 - 15
6005A	T1	up through .250	25.0	---	14.0	---	15	1 - 7
	Will Naturally Age							
6005A	T4	up through .250	25.0	---	15.0	---	16	1 - 7
	Will Naturally Age							
6005A	T5	up through .250	38.0	---	31.0	---	7	13 - 16
6005A	T61	up through .250	38.0	---	35.0	---	8	15 - 16
6061	F	All	---	22.0	---	16.0	16	0 - 5
	Will Naturally Age							
6061	T1	up through 0.625	26.0	---	14.0	---	16	1 - 7
	Will Naturally Age							
6061	T4 / T4 511	All	26.0	---	16.0	---	16	1 - 7
6061	T5	up through 0.625	35.0	---	30.0	---	8	13 - 16
6061	T6 / T6 511	up through 0.249	38.0	---	35.0	---	8	15 - 17
		0.250 and over	38.0	---	35.0	---	10	15 - 17
6351	T1	up through 0.499	26.0	---	13.0	---	15	1 - 7
6351	T4	up through 0.749	32.0	---	19.0	---	16	1 - 7
6351	T5	up through .249	38.0	---	35.0	---	8	13 - 16
		0.250 and over	38.0	---	35.0	---	10	15 - 17
6351	T6	up through .124	42.0	---	37.0	---	8	15 - 17
		0.125 - 0.749	42.0	---	37.0	---	10	15 - 17

Note : T_ 511 - Stress Relieved Temper (1 to 3 % Permanent Set)

The "511" gives the directive to use "**Minimum Stretch**"

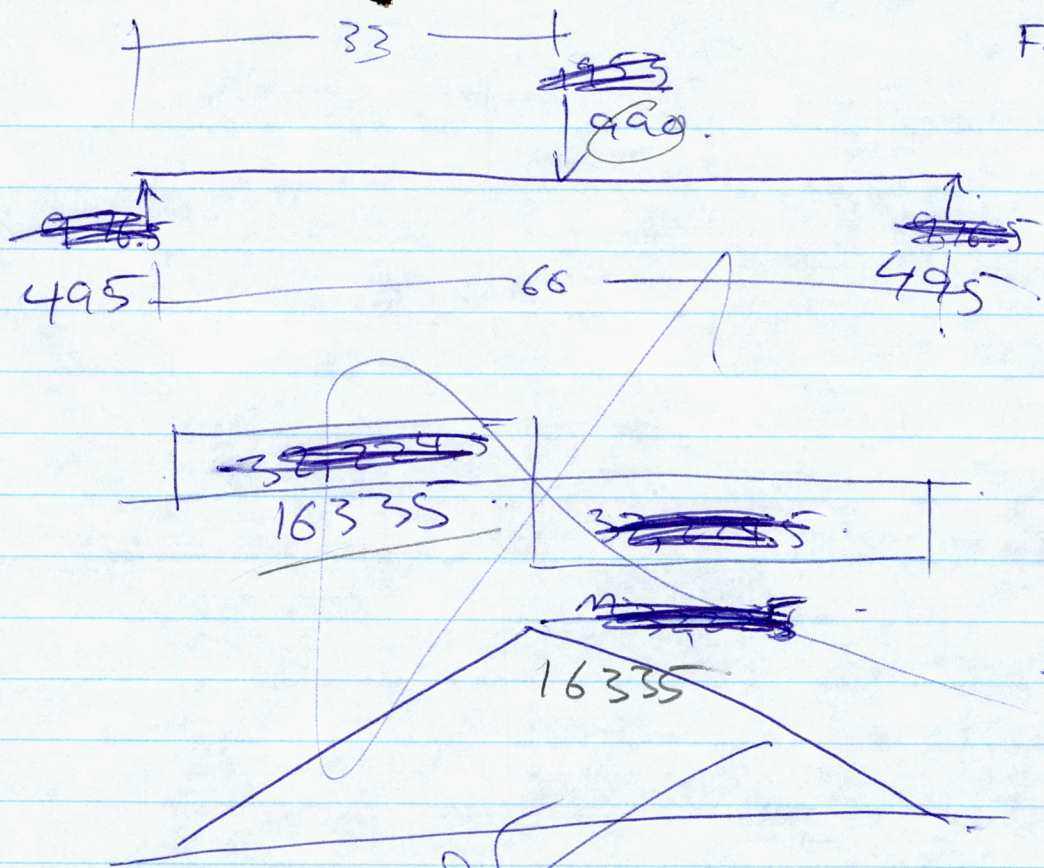
Applies to extruded rod, bar, shapes, and tubes when stretched the indicated amounts after solution heat treatment or after cooling from an elevated temperature shape process. These products may receive minor straightening after stretching to comply with standard tolerances

Technical drawing of a rectangular plate with rounded corners and a central slot. The drawing includes the following dimensions and features:

- Overall width: 86.36
- Overall height: 51.43
- Slot width: 4.45
- Slot depth: 3.18
- Top-left corner radius: R0.51 (TYP)
- Top-right corner radius: R3.81
- Inner corner radius: R5.08 (TYP)
- Outer corner radius: R7.62
- Bottom corner radius: R8.13
- Bottom-left corner angle: 30°
- Top edge distance from left: 5.08 (TYP)
- Top edge distance from slot: 1.27
- Bottom edge distance from slot: 25.91

Caradon Indalex

Caradon Indalex				MILLING <input type="checkbox"/> WT <input type="checkbox"/> CHECKING <input type="checkbox"/> GRINDING <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> LID REPRESENTATION YES <input type="checkbox"/> NO <input type="checkbox"/>			
WALL THICKNESS 0.100 IN 2.54 MM EXCEPT AS SHOWN				NET SIZE 16 x 8.5 INCHES NET LOG			
EST. AREA 1.122 IN ² 723.90 MM ²				BACKER SIZE FEEDER SIZE			
EST. WT. 1.346 LBS 611.963 KG				BACKER LEE FEEDER LEE			
EST. PER 19.188 IN 487.38 MM C.C.B. 3.487 IN 88.57 MM				MOLDING NO. C1662 MOUNTER LOG C9 CAV. 1			
DWN BY ALLEY6061-76				PRISTINE NO. 2 MOUNTER 188 EXT. RATIO 30			
BREAK ALL CORNERS .010" (0.254) UNLESS OTHERWISE NOTED.							



$$F = 217.316 \text{ wt/pers} \\ \times 3 \text{ pers} \\ \times 1.5 \\ \text{max } 990.5 \\ = 1981.0$$

$$2.031$$

$$- .8$$

$$= 1.23$$

$$I_x = 0.55$$

$$c = 1.23$$

$$\frac{32225 \times 1.23}{0.55}$$

What ever

$$\frac{16,350 \times 1.23}{0.55} = 36.564 \text{ psi}$$

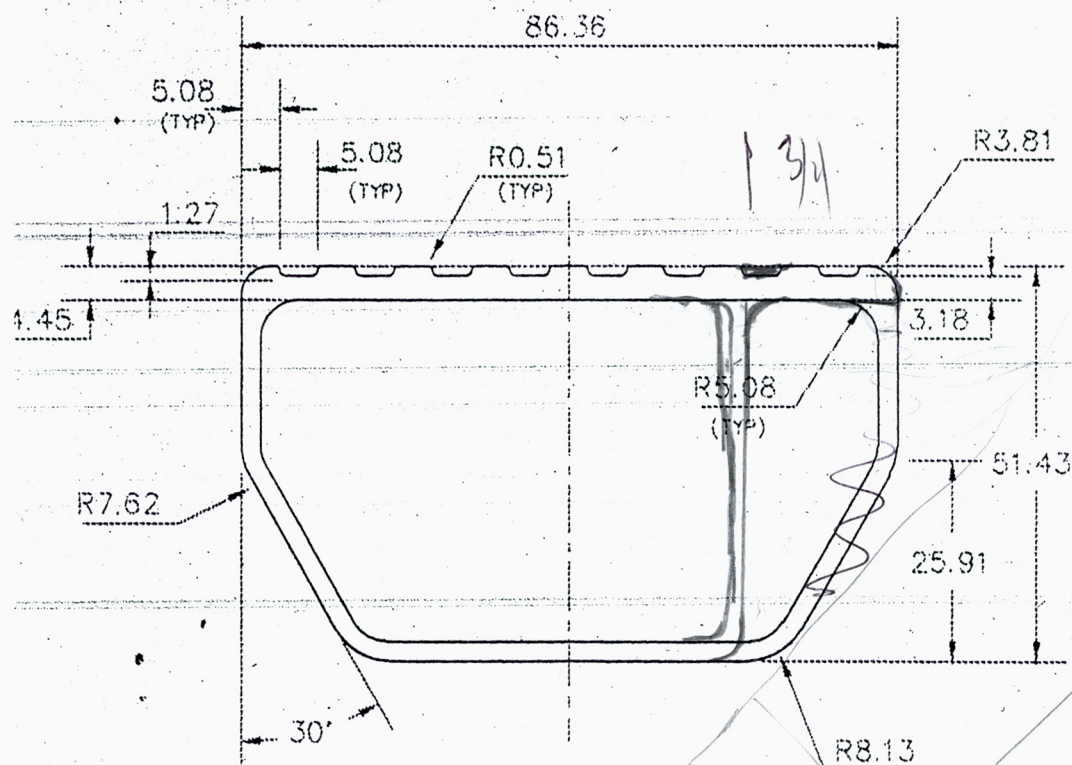
Bob Zeldry
2826
1780 995 9853
Gateway Admission
Pat Passage

48.52
36.37

45.95
35.54

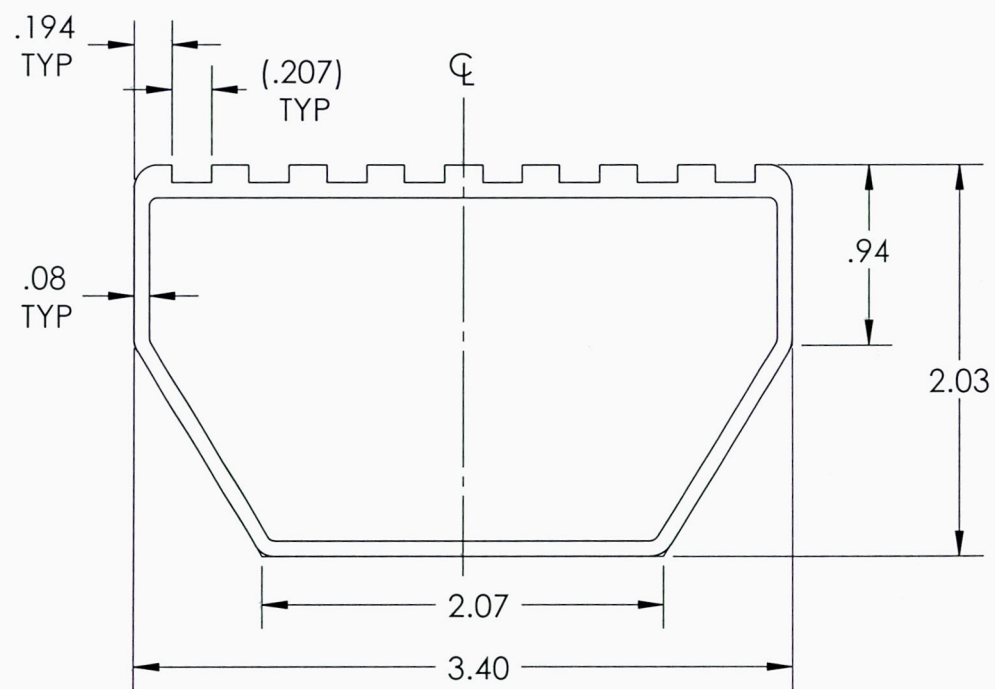
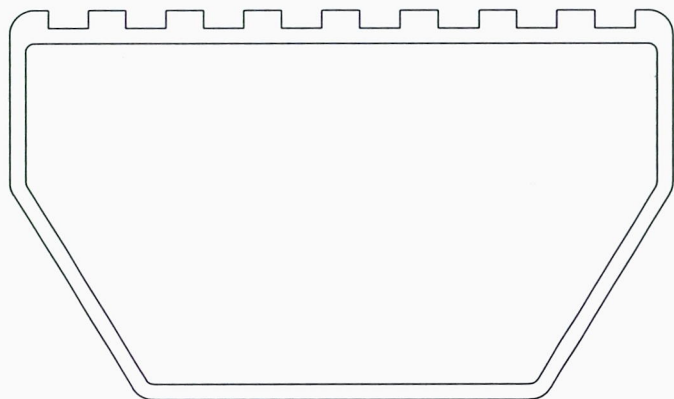
13970

EXPOSED ALL AROUND

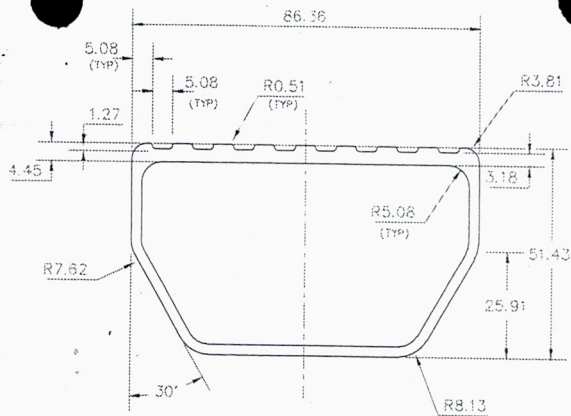


ACTUAL SIZE

radon Indalex		PRELIM <input type="checkbox"/> WT <input type="checkbox"/> PC <input type="checkbox"/>	CHECKING BOARD <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	LIP RETENTION <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>
00 IN 2.54 MM	EXCEPT AS SHOWN	PIE SIZE 10 x 5.5	PKT.	PIE LOC
IN ² 723.90 MM ²	OUT PER 10.308 IN 261.83 MM	BACKER SIZE	FEEDER SIZE	
BS ⁴ 1.963 KG/M	FACTOR 14 / 248	BACKER NO.	FEEDER NO.	
IN 487.38 MM	C.O.D. 3.487 IN 88.57 MM	BACKER LOC	FEEDER LOC	
ALLOY 6061-T6	SCALE 1:1 DATE 97/9/11	WOLSTER NO C1662	WOLSTER LOC C9	CAV. 1
CORNERS .010" R (0.25R) UNLESS OTHERWISE NOTED.		PRESS NO 2	CONT# 188	EXT RATIO 38
STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED				



EXPOSED ALL AROUND



ACTUAL SIZE

<h1>Caradon Indalex</h1>				PRELIM <input type="checkbox"/> WT <input type="checkbox"/> CARBONISE DENSITY <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ATTACHMENT <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>			
WALL THICKNESS 0.100 IN 2.54 MM EXCEPT AS SHOWN				FIN. SLO. 1/8" x 5/8" (MAX) HIE. LOC.			
EST. AREA 1.122 IN ² 723.90 MM ²				BATCHER SIZE REF. B. SIZE			
EST. WT. 1.346 LBS 1.963 KG				BATCHER NO. REF. B. NO.			
EST. PER 19.188 IN 487.38 MM				BATCHER SIZ. REF. B. SIZ.			
C.O.D. 3.487 IN 88.57 MM				MULTIPLIER NO. 01662			
DWN BY ALLOY 6061-T6				SCALE 1:1 DATE 97/9/11			
BREAK ALL CORNERS .010" (0.254) UNLESS OTHERWISE NOTED.				STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED			

6005A

- T61

1000 F WATER MIST

8720 S-8 HRS.

365 °F

MILL FINISH.

[illegible]

Caradon Indalex

<h1>Caradon Indalex</h1>		PRELIM <input type="checkbox"/> WT <input type="checkbox"/> CHECKING <input type="checkbox"/> DASHES <input type="checkbox"/> FEED <input type="checkbox"/> LAD <input type="checkbox"/> SP/SEASON <input type="checkbox"/>		YES <input type="checkbox"/> NO <input type="checkbox"/>
		HT <input type="checkbox"/> SIZE <input type="checkbox"/> 10 x 6.5 <input type="checkbox"/> FWT <input type="checkbox"/>		HT <input type="checkbox"/> LSC <input type="checkbox"/>
WALL THICKNESS 0.100 IN 2.54 MM		EXCEPT AS SHOWN		
EST. AREA 1.122 IN ² 723.90 MM ²		OUT PER 10.308 IN 261.83 MM		
EST. WT 1.346 LBS FT 1.963 KGF M		FEEDER 14 / 248		
EST. PER 19.188 IN 487.38 MM		C.C.D. 3.487 IN 88.57 MM		
DWN BY ALLYDEG061-176		SCALE 1-1 DATE 9/7/91		
* BREAK ALL CORNERS (DOW) (0.25R) UNLESS OTHERWISE NOTED.				
STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED				

AST
12 5/8

13
12 1/8

1"

1/2"

1.934

FWD

2.4

2.031

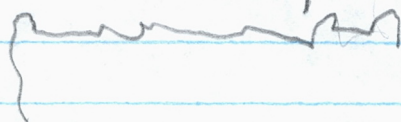
.937

2.070

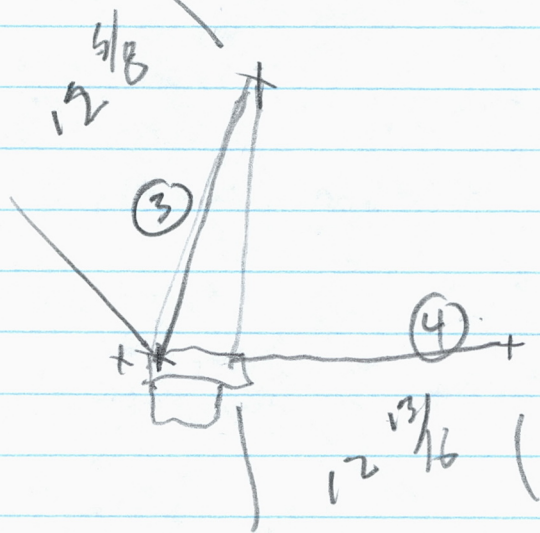
3.40

2.11

5.194



APL



Fwd.

